

**Client**

Michael Willmets  
Birgitte Alting-Meese  
City of Ottawa  
100 Constellation Cres.  
Ottawa, Ontario K2G 6J8  
613.580.2424

**Location**

Ottawa, Ontario, Canada

**Services**

- Hydraulic Analysis
- High and Low Pressure Transmission Main Design
- Pumping Station Improvements

**Date**

1999 – 2006

**Key Personnel**

André Proulx, P.Eng.  
Project Manager  
John Allen, P.Eng.  
Contract Manager  
Hugh Tracy, P.Eng.  
Process Engineer  
Peter Hunt, C.E.T.  
Designer

**Contract Value**

\$80,000.00



## Fleet Street Pumping Station Supply- Piping, Discharge Piping and Structure Rehabilitation

**Scope of Services**

Fleet Street Water Pumping Station is a heritage facility initially constructed in 1874. The station provides approximately 40 percent of the drinking water supply to the City of Ottawa, and includes five turbine pumps that operate from the hydraulic head of the Ottawa River's Chaudière Falls. Delcan has been involved in the rehabilitation and replacement of infrastructure within this facility since 1997 to the present to provide the City with a safe and reliable water supply to meet existing and future needs.



**Project Description**

Among the numerous projects undertaken by Delcan at this pumping station, and the highlights are described in the following:

- A unique computer model was used to predict Station output under various operating conditions and system expansions;
- The design and construction of new discharge piping ranging in sizes from 1524 mm to 914 mm (60-inch to 36-inch) diameter, to replace and consolidate the myriad of aging smaller watermains;
- The design and replacement of seven sluice gates, complete with structural wall replacement, while satisfying heritage architectural constraints; and
- The design and construction of new low pressure suction piping ranging in size from 1676 mm to 457 mm (66-inch to 18-inch) diameter, to replace greater than 100 year old 1295 mm (51-inch) diameter "B" and "C" wall lines.



**Results**

The Fleet Street Pumping Station projects were designed and constructed for commissioning to begin in late June 2006, following completion of other City works.